### Governor Martin O'Malley's



## OLD GOVERNMENT TENETS

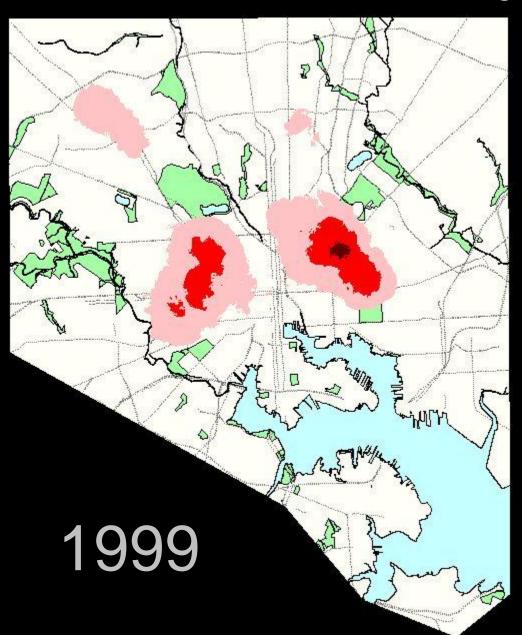
- ► If the Governor really wants to know, we can find out. But we'll have to pull all our people off their jobs. And it will take weeks.
- ► We'll get to that as soon as we can, but it will take a few months because our budget was cut last year.
- ► That's the way we've always done it / We're already doing that / We tried that and it didn't work.
- ► I hope the legislature forgets about this before next year's budget hearing.

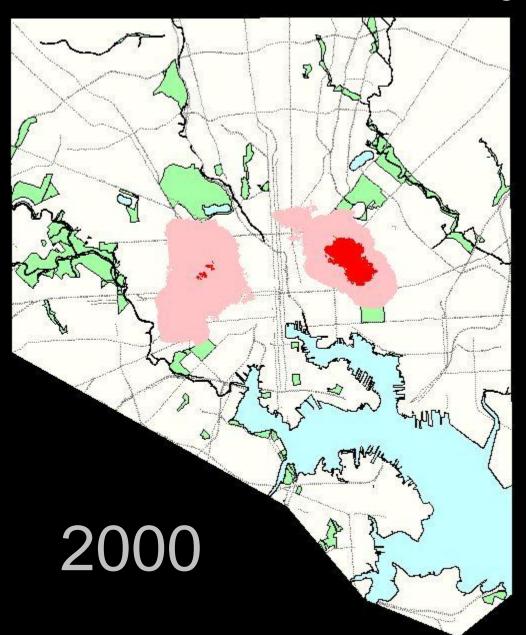
## STAT TENETS

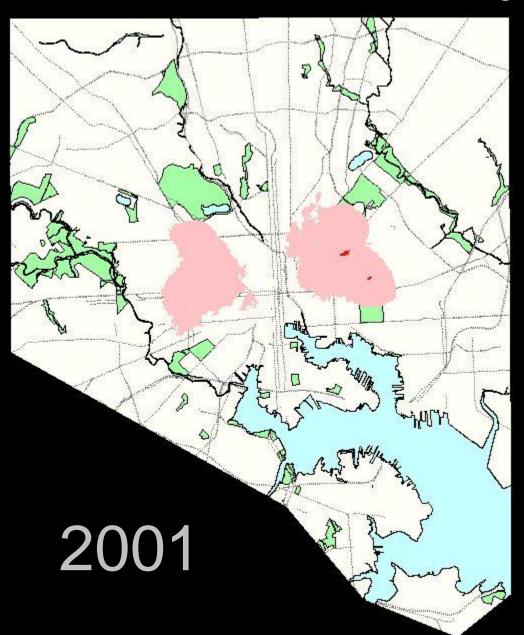
- Timely and Accurate intelligence shared by all
- Rapid deployment of resources
- Effective tactics and strategies
- Relentless follow-up and assessment

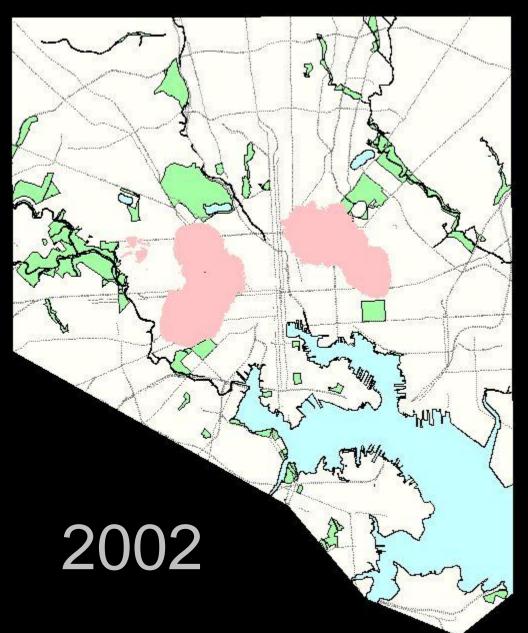


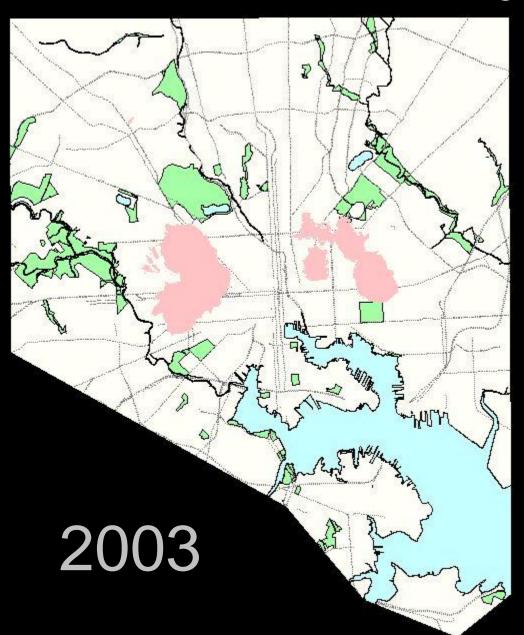


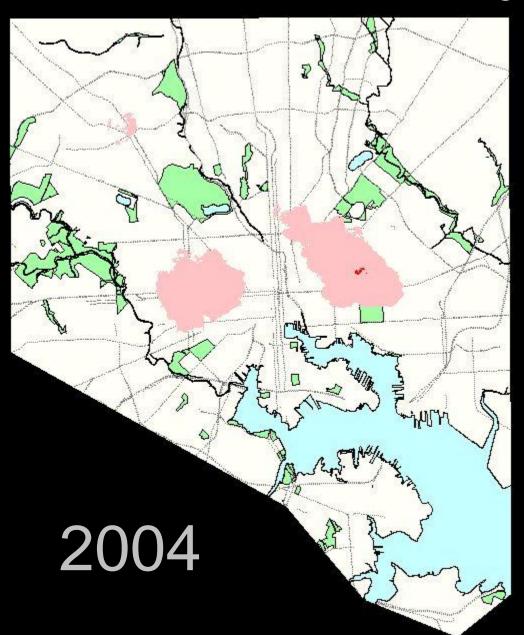


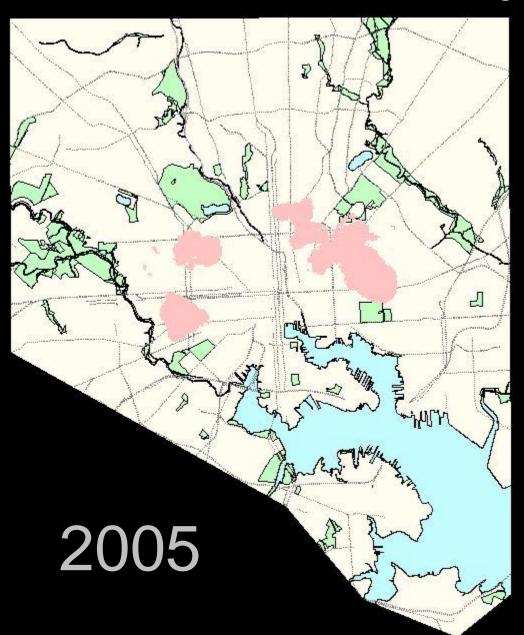






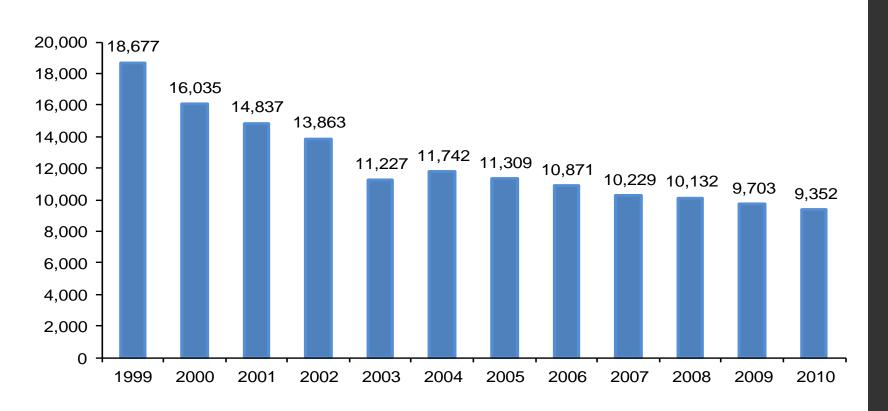






## Baltimore City 1999-2010 49.9 Percent Reduction in Violent Crime

### **Baltimore City Violent Crime Trends 1999 - 2010**





## BAYSTAT



Sean

Governor Martin O'Malley Lt. Governor Anthony G. Brown



Р

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Smart, Green & Growin

SG&C

GREENPRINT

AGPRINT

**GROWTHPRINT** 

TREES

**OYSTERS** 

STREAMHEALTH

BAYSTAT

**Current Health** 

Causes of the Problems

Solutions

Trust Fund

**Tributary Teams** 

**GET INVOLVED** 

Welcome

How to Navigate Site

A Message from the Governor

Executive Order (pdf)

Fact Sheet (pdf)

BayStat and Land Conservation

Oysters

News

FREE Email Newsletter

**PARTICIPANTS** 

Office of the Governor



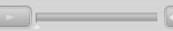








Governor Martin O'Malley



### Governor Martin O'Malley Announces 2011 Blue Crab Winter Dredge Survey Results

Governor Martin O'Malley announced that the Chesapeake Bay's blue crab population is at its second highest level since 1997 and well above the target for the third year in a row, setting the stage for a Bay-wide recovery. The results of the 2011 Blue Crab Winter Dredge Survey indicate that management measures put into place in 2008 are continuing to pay dividends for the crab population, the industry, recreational crabbers and those who just plain enjoy the Bay's favorite crustacean. Joined by stakeholders, elected officials and staff, Governor O'Malley made the announcement from the deck of Mike's Crab House near Annapolis, overlooking the South River. Read more...

### Maryland's Role in the Chesapeake Bay TMDL

The State of Maryland submitted its Final Phase I Watershed Implementation Plan to the Environmental Protection Agency on December 3, 2010. This Plan was developed by the Maryland Department of the Environment Natural Property and Planning union the State's

video transcript

### BayStat in the News

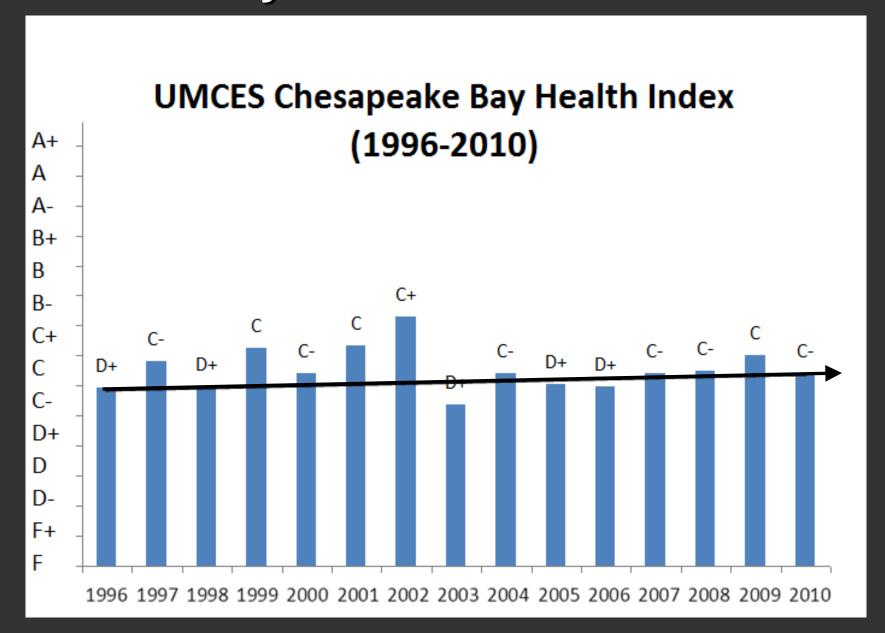
4/19/11 - Governor Martin O'Malley Announces 2011 Blue Crab Winter Dredge Survey Results - DNR

3/23/11 - Somers Cove Gets \$60K Grant - DelmarvaNOW.com

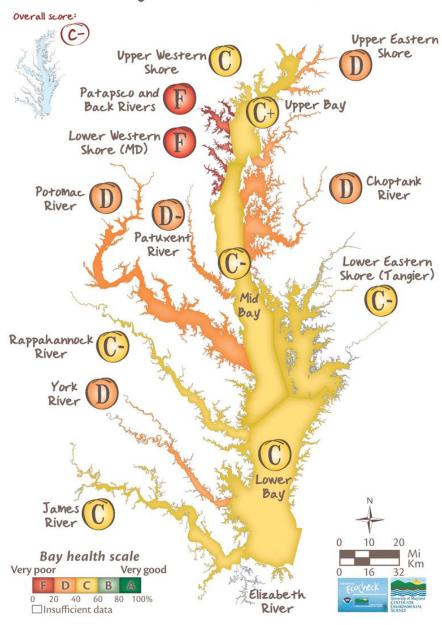
3/14/11 - Citizen Oyster Growers And DNR Meet To Plan Marylanders Grow Oysters Program For 2011 - DNR

2/16/11 - O'Malley, Environmentalists Make Argument For Septic Ban -Southern Maryland News

## **Bay Health Over Time**



### Bay Health Index 2010



- UMCES bases the Bay Health Index on 6 Indicators
- These indicators include:
  - Water Clarity
  - Dissolved Oxygen
  - Benthic Community
  - Aquatic Grasses
  - Phytoplankton Community
  - Chlorophyll a.



## MARYLAND EYES ON THE BAY

Smart, Green & Growing

**EOTB HOME** 

**CURRENT CONDITIONS** 

STATUS & TRENDS

HARMFUL ALGAE

SATELLITE MAPS

MORE

How to Use This Site

Monitoring Stories and Publications

What Does It Mean?

Lesson Plans

**Links and Social** Media

<u>Partners</u>

Ask an Expert

**BayStat** 

Maryland StreamHealth

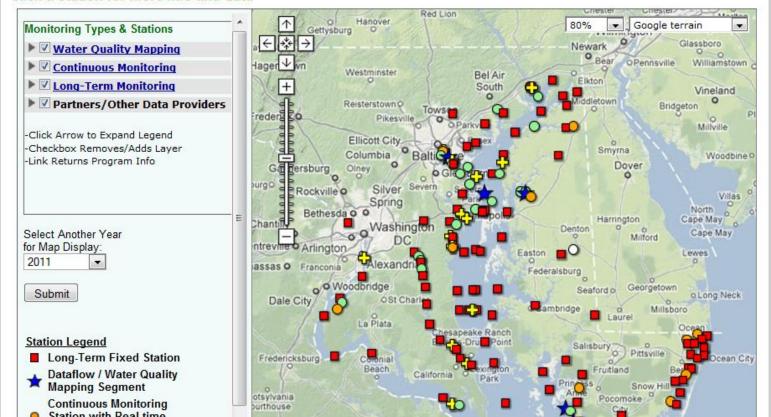
**DNR Home Page** 

### **Eyes on the Bay - Home**

Welcome to the new site! Please email us with comments or kudos and view our Twitter feed below.

🐣 Maryland DNR said: MD & VA will be conducting its normal water quality cruises for Chesapeake Bay next week and will report on any effects of Irene Amaryland DNR said: Telemetry removed from most sites. PAX & Bush sites still real-time through our NOAA/NERRS partner site. http://t.co/ziNbStQ Amaryland DNR said: If you have a flood prone garage or basement, move all your house and lawn chemicals to higher ground to prevent H20 pollution.

### Click a station for more info and data





## MARYLAND STREAMHEALTH

Email Friend Print page

Smart, Green & Growing

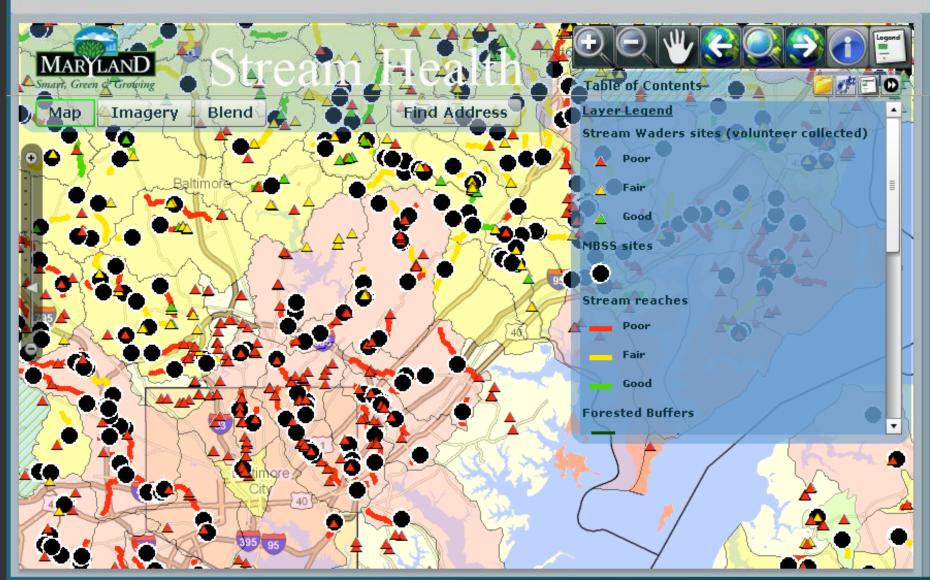
GREENPRINT

AGPRINT

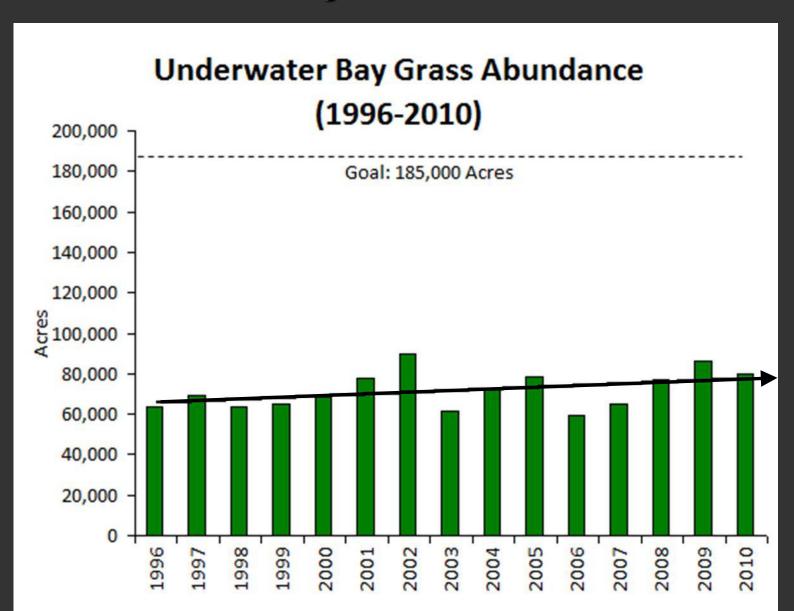
TREES **OYSTERS**  STREAMHEALTH

BAYSTAT

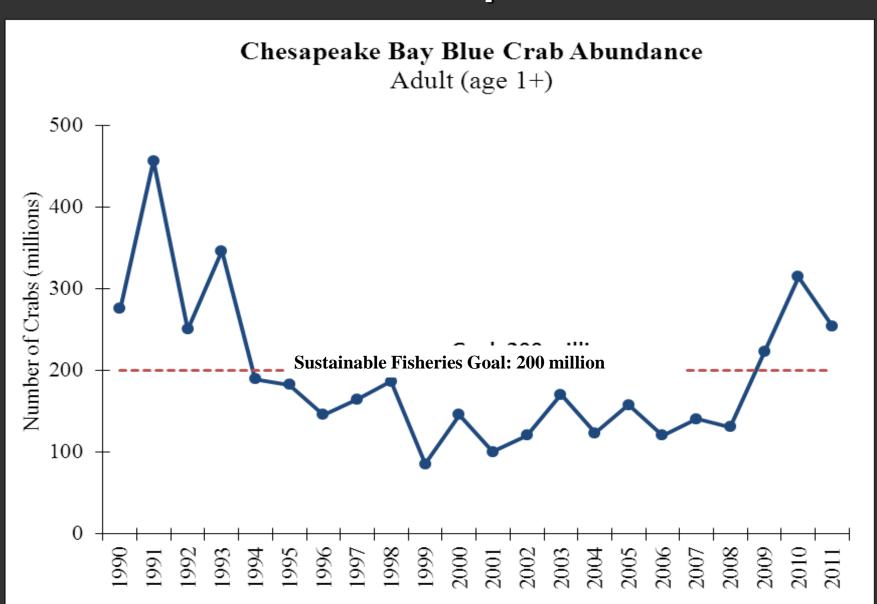
### StreamHealth



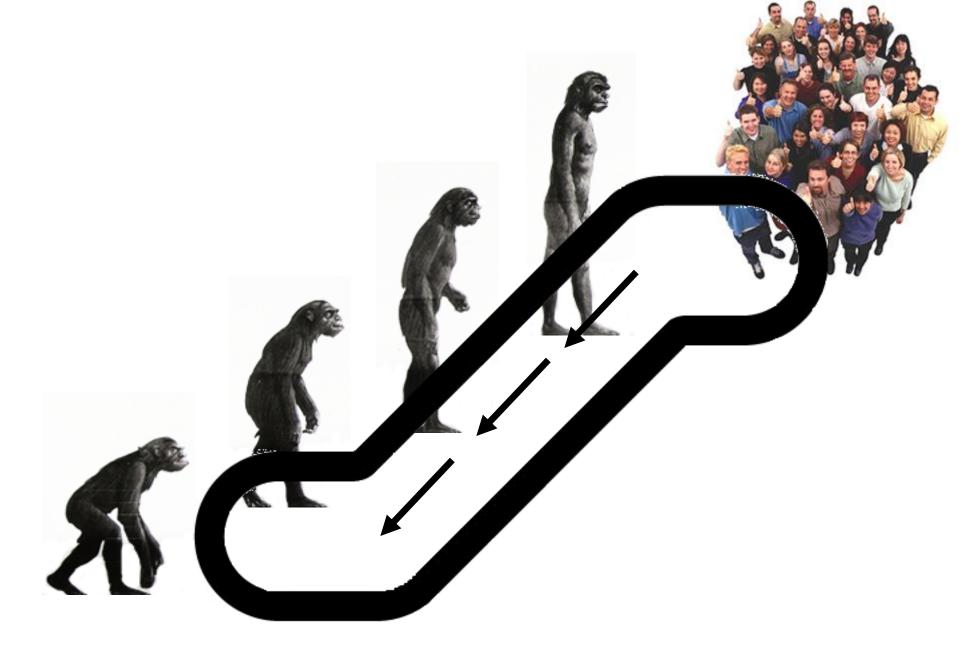
## **Bay Grass**

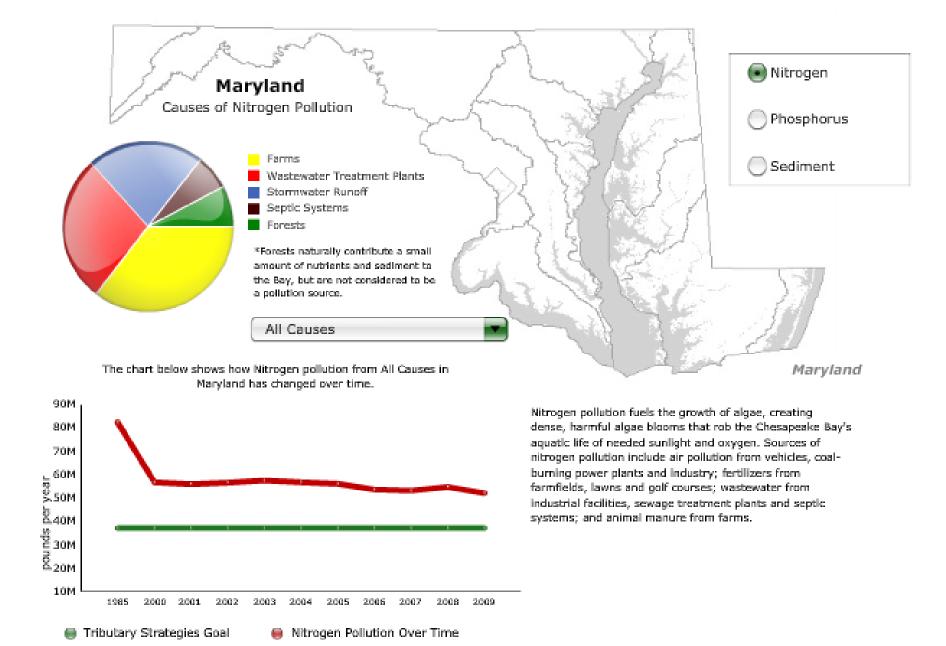


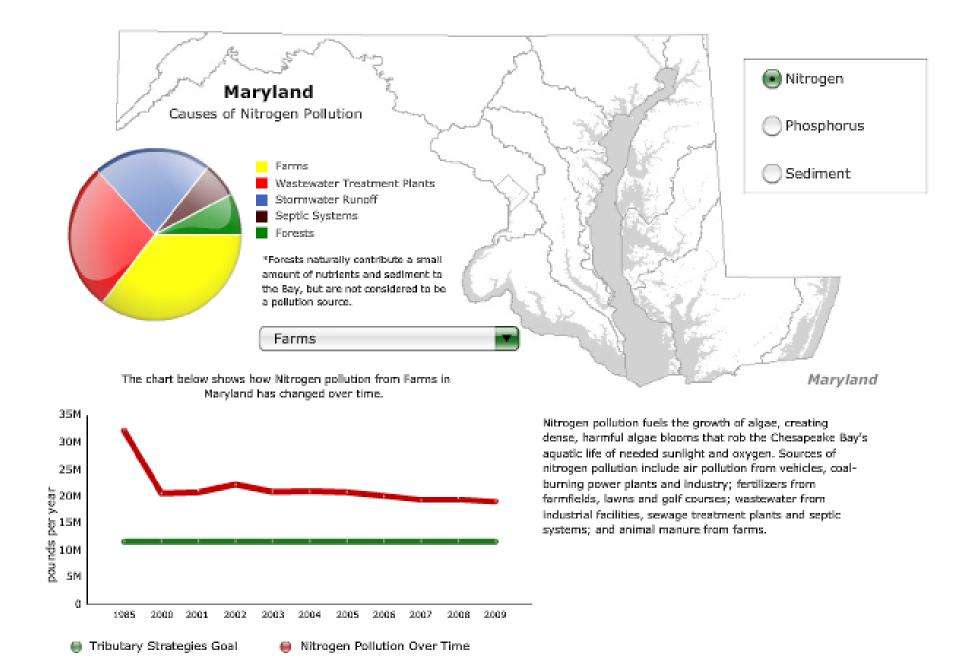
## **Blue Crab Population**

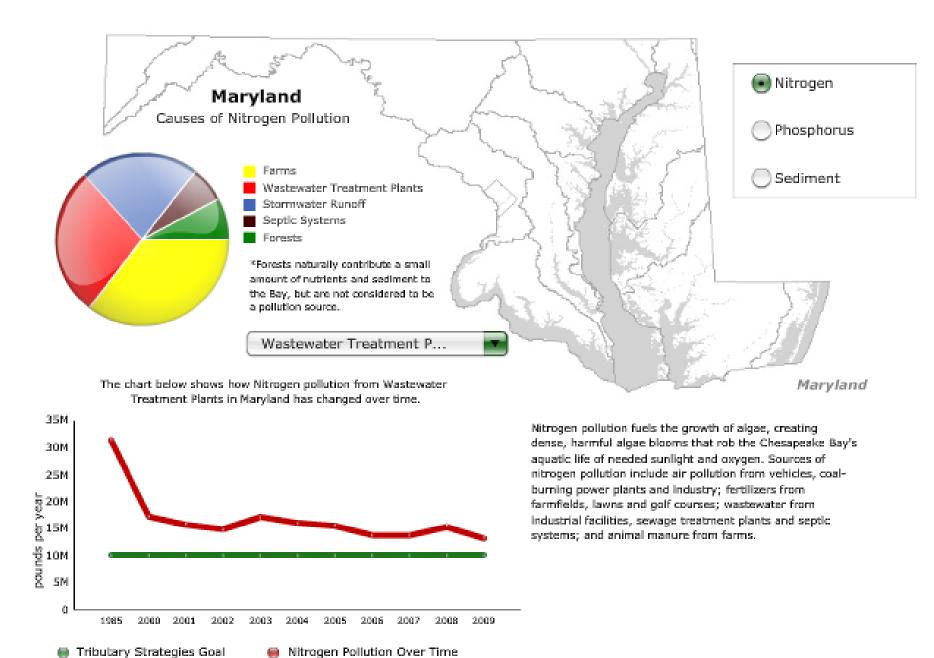


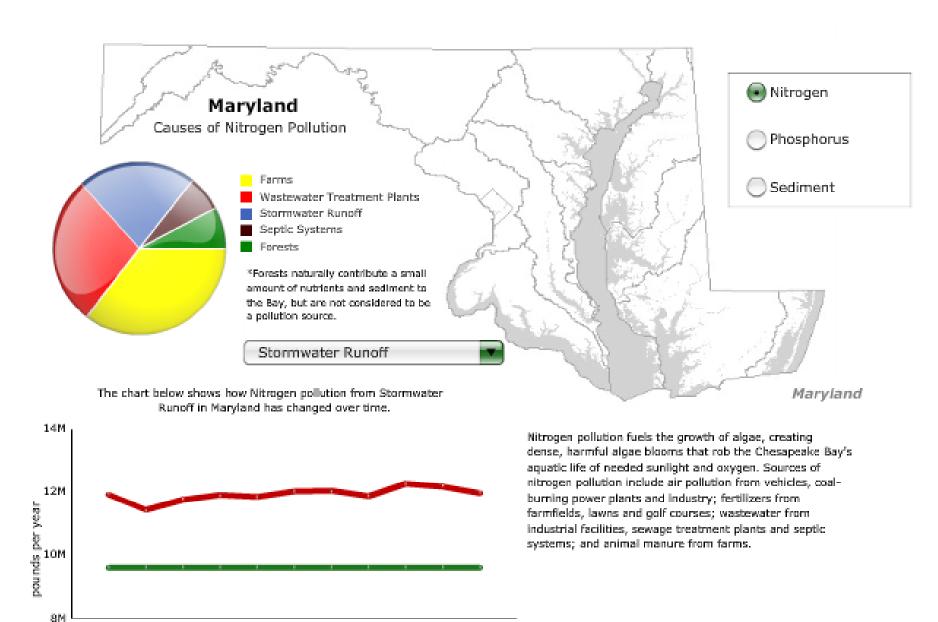
# CAUSES





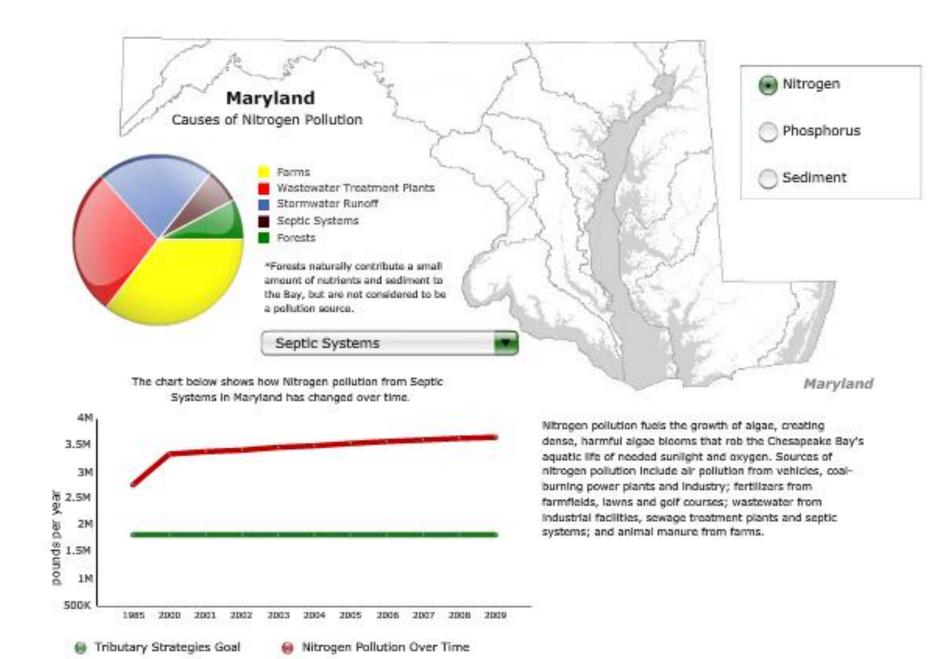


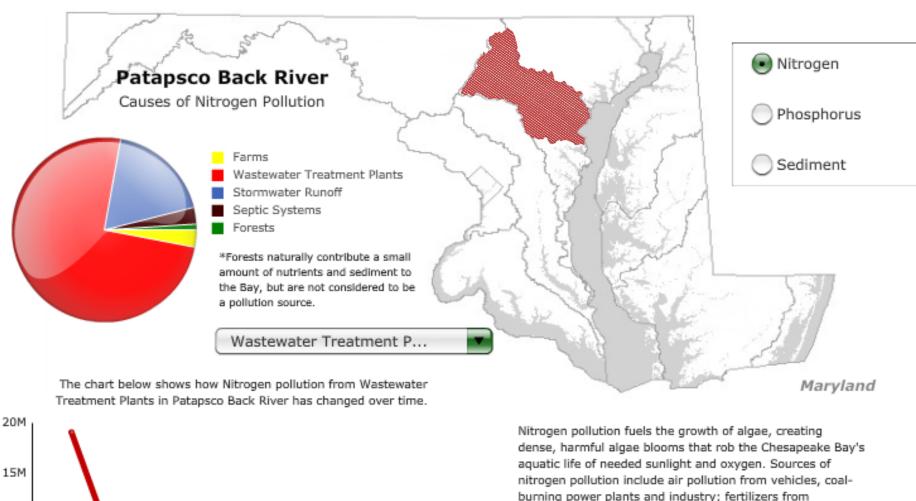


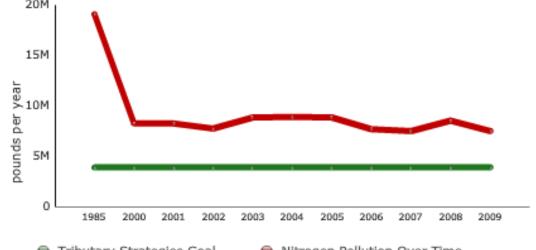


📄 Tributary Strategies Goal 💢 Nitrogen Pollution Over Time

2008 2009



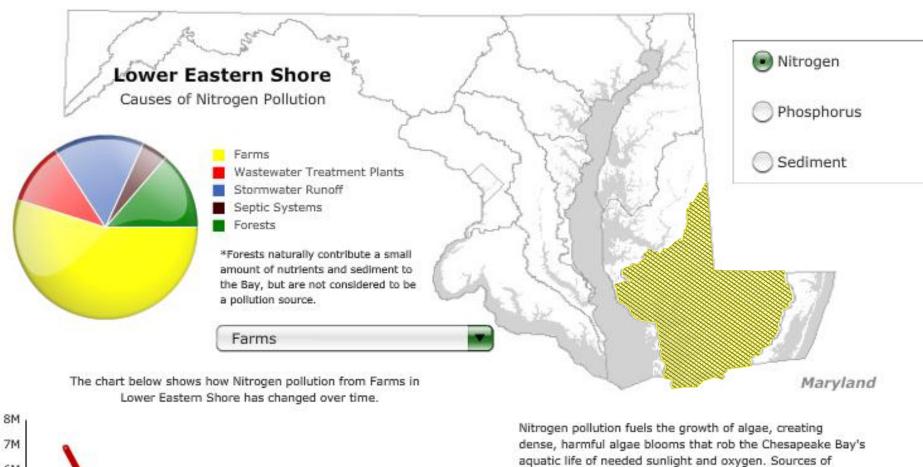


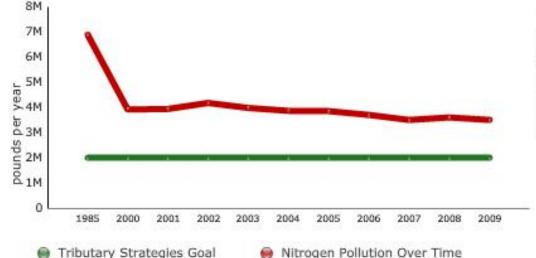


burning power plants and industry; fertilizers from farmfields, lawns and golf courses; wastewater from industrial facilities, sewage treatment plants and septic systems; and animal manure from farms.

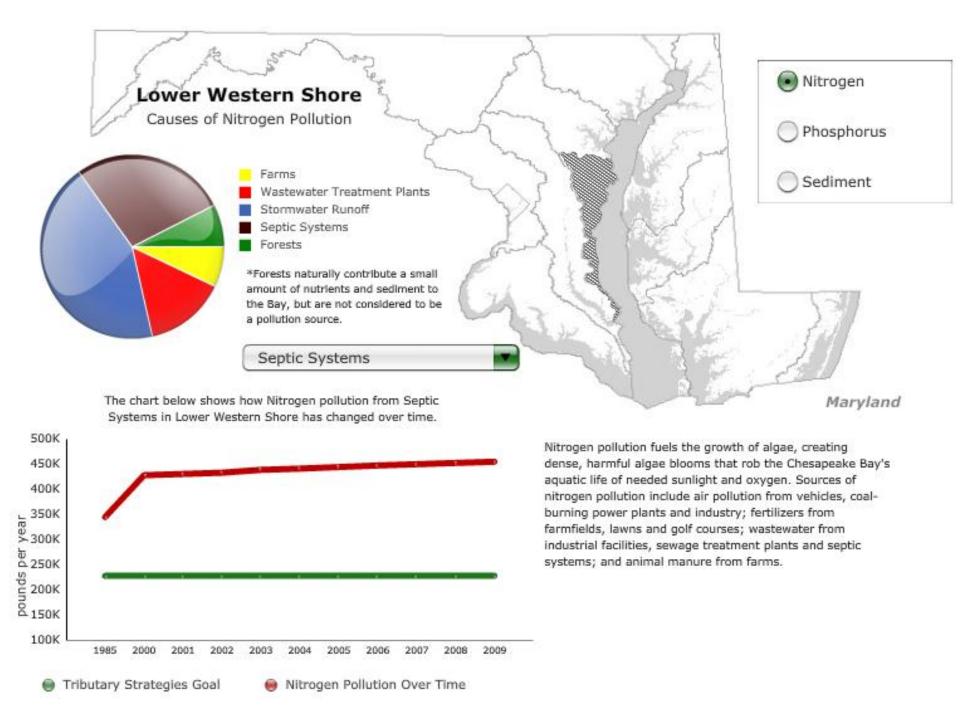
Tributary Strategies Goal

Nitrogen Pollution Over Time





Nitrogen pollution fuels the growth of algae, creating dense, harmful algae blooms that rob the Chesapeake Bay's aquatic life of needed sunlight and oxygen. Sources of nitrogen pollution include air pollution from vehicles, coalburning power plants and industry; fertilizers from farmfields, lawns and golf courses; wastewater from industrial facilities, sewage treatment plants and septic systems; and animal manure from farms.



# SOLUTIONS

### Maryland's Bay Restoration Plans: 2-Year Milestones

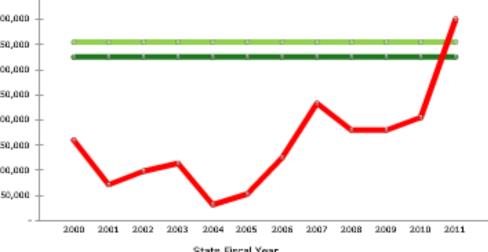
Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact.

Farms: Managing the Land Cover Crops Farms: Managing the Land Cover crops are small grains such as wheat or rye that Cover Crops are planted in the fall after the harvest of com, soybeans and other summer crops to absorb unused Soil Conservation & Water Quality Plans fertilizers that may remain in the soil. Cover crops Water Control Structures also provide a ground cover to prevent soil erosion in the winter. Stream Protection with Fencing Stream Protection without Fencing **Cover Crop Acres** 450,000 400,000 350,000 300,000 Farms: Fertilizers and Animal Waste 250,000 Farms: New Technologies 200,000 Farms: Natural Filters Reducing Pollution from Urban Areas 150,000 Restoring Natural Filters on Public Lands 100,000 Conserving High Priority Lands 50,000 2006

Last Update: July 25, 2011

Cover Crops 2-Year Milestone Progress (2009-2011)





State Fiscal Year

2017 Goal

2011 Goal

Progress

### 2 Year Plan

### Maryland's Bay Restoration Plans: 2-Year Milestones

Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact.

Farms: Managing the Land Cover Crops Soil Conservation & Water Quality Plans Water Control Structures Stream Protection with Fencing Stream Protection without Fencing Farms: Fertilizers and Animal Waste Farms: New Technologies Farms: Natural Filters Reducing Pollution from Urban Areas Restoring Natural Filters on Public Lands Conserving High Priority Lands

### Farms: Managing the Land Stream Protection without Fencing

Watering troughs provide a safe, reliable source of water for livestock that is away from streams. The troughs help protects stream banks from erosion that may be caused by farm animals.

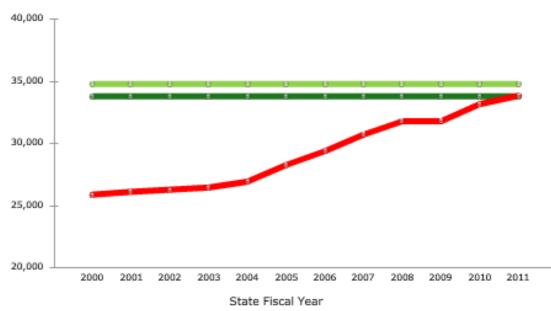
2017 Goal

Last Update: July 25, 2011

Stream Protection without 2-Year Milestone Progress (2009-2011)



### Protected Acres



2011 Goal

Progress

### Maryland's Bay Restoration Plans: 2-Year Milestones

Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact. Last Update: July 25, 2011

Manure Transport 2-Year Milestone Progress (2009-2011)

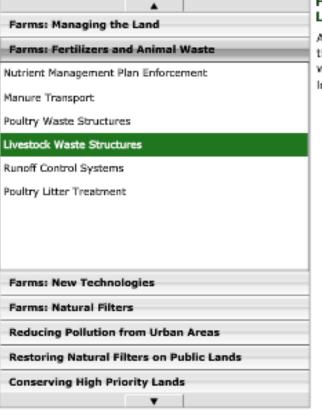


### 2 Year Plan

### Maryland's Bay Restoration Plans: 2-Year Milestones

Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact. Last Update: July 25, 2011

Livestock Waste Structures 2-Year Milestone Progress (2009-2011)



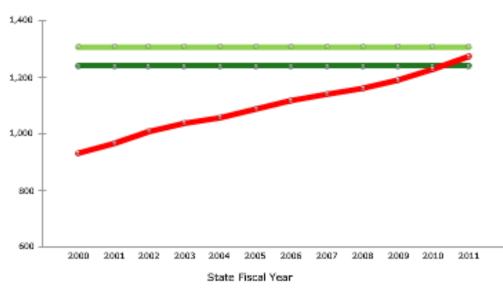
### Farms: Managing Fertilizers and Animal Waste Livestock Waste Structures

Animal waste is stored in structures to protect it from the weather until it can be used as a crop fertilizer when conditions are right or transported to another location.

2017 Goal



### **Livestock Waste Structures**



2011 Goal

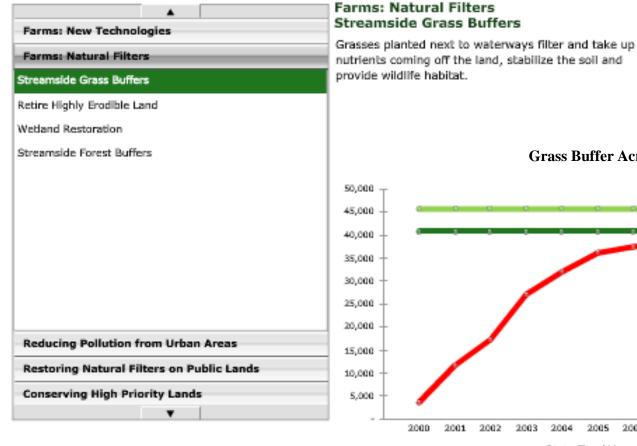
Progress

### Maryland's Bay Restoration Plans: 2-Year Milestones

Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact.

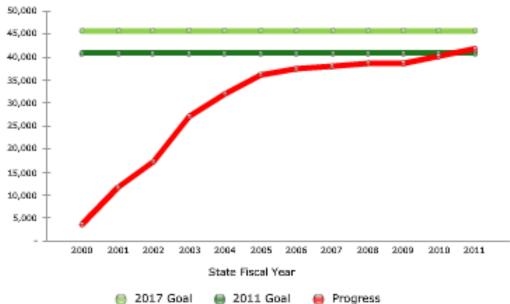
Last Update: July 25, 2011

Streamside Grass Buffers 2-Year Milestone Progress (2009-2011)









### Maryland's Bay Restoration Plans: 2-Year Milestones

Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact. Last Update: July 25, 2011

Retire Highly Erodible Land 2-Year Milestone Progress (2009-2011)

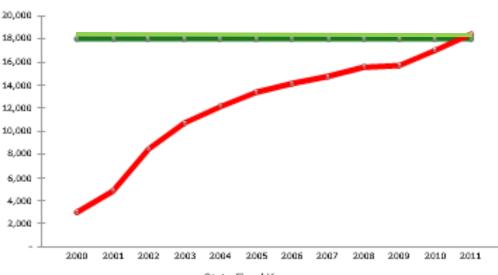


### Farms: Natural Filters Retire Highly Erodible Land

Land that is especially vulnerable to erosion is removed from crop and hay production and is planted in either grass or forest. This land is usually not disturbed for at least 10 years.



### **Retired Acres**

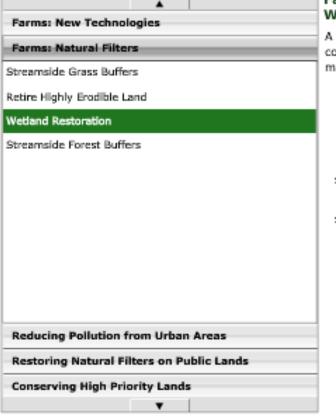


State Fiscal Year

# Maryland's Bay Restoration Plans: 2-Year Milestones

Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact.

greatest impact. Wetland Restoration
2-Year Milestone Progress
(2009-2011)



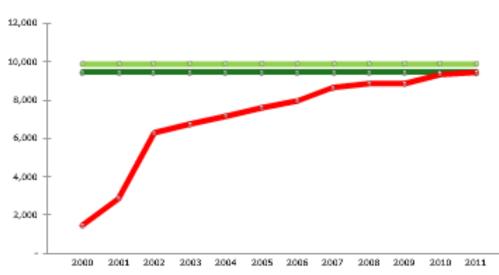
## Farms: Natural Filters Wetland Restoration

A wetland is an area of land where the soil wet or covered with water. Wetlands are often called swamps, marshes, or bogs.



Last Update: July 25, 2011

### **Wetland Acres**



24.4

Reducing Pollution from Urban Areas

Conserving High Priority Lands

Restoring Natural Filters on Public Lands

# Maryland's Bay Restoration Plans: 2-Year Milestones

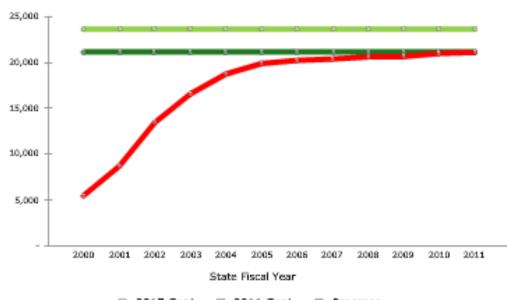
Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact.

Farms: Natural Filters Streamside Forest Buffers Farms: New Technologies Trees planted next to waterways filter and take up Farms: Natural Filters nutrients coming off the land, stabilize the soil and provide wildlife habitat. Streamside Grass Buffers Retire Highly Erodible Land Wetland Restoration Streamside Forest Buffers 25,000

Last Update: July 25, 2011

Streamside Forest Buffers 2-Year Milestone Progress (2009-2011)

## **Forest Buffer Farm Acres**



2017 Goal 2011 Goal Progress

# Maryland

#### PLANTING COVER CROPS

REDUCING POLLUTION FROM URBAN AREAS

## State-of-the-Art Wastewater Treatment Plants

Septic System Upgrades to Reduce Nitrogen Stormwater Runoff Management

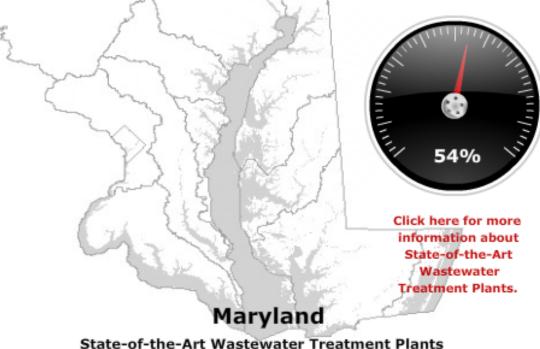
#### IMPLEMENTING BEST FARMING PRACTICES

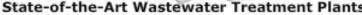
RESTORING NATURAL FILTERS

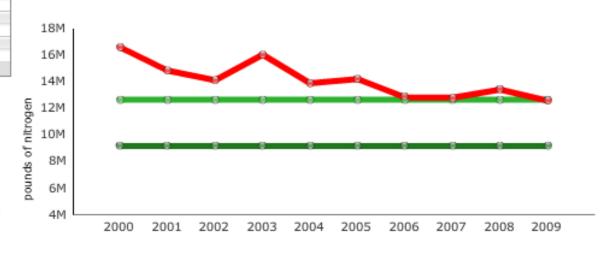
#### CONSERVING HIGH PRIORITY LANDS

NOTE: For each category above, the most effective solutions are listed in order of greatest impact.

Progress is shown on this graph differently than for all of the other solutions. The goal is to move the nitrogen discharges down to or below the green goal line. The speedometer represents the current percent progress toward the goal since 2000.







2-Year Milestone Goal

Tributary Strategy Goal

Implementation Record

## Maryland's Bay Restoration Plans: 2-Year Milestones

Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact.

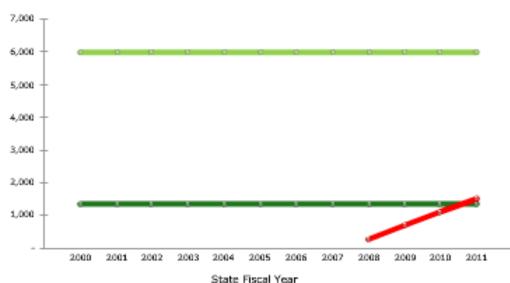
> Reducing Pollution from Urban Areas Septic Retrofits Inside of Critical Area

This technology reduces the discharge of nitrogen from septic systems to the environment thereby improving the quality of both ground and surface water. Last Update: July 25, 2011

Septic Retrofits Inside of 2-Year Milestone Progress (2009-2011)



**Septic Systems** 



Farms: Natural Filters Reducing Pollution from Urban Areas Wastewater Treatment Plants ENR. Urban Nutrient Management Regulations MD Healthy Air Act Blue Plains BNR Upgrade Stormwater Runoff Management Retrofits Septic Retrofits Inside of Critical Area Septic Retrofits Outside of Critical Area Septic Hookups to WWTPs Restoring Natural Filters on Public Lands Conserving High Priority Lands

## Maryland's Bay Restoration Plans: 2-Year Milestones

Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact.

Restoring Natural Filters on Public Lands

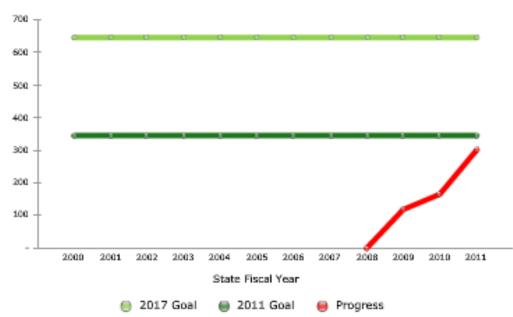
Trees planted next to waterways filter and take up nutrients coming off the land, stabilize the soil and provide wildlife habitat.

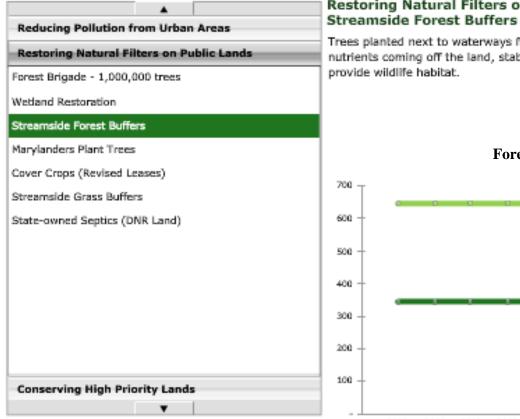
Last Update: July 25, 2011

Streamside Forest Buffers 2-Year Milestone Progress (2009-2011)



**Forest Buffer Public Acres** 





## Maryland's Bay Restoration Plans: 2-Year Milestones

Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact.

Reducing Pollution from Urban Areas Restoring Natural Filters on Public Lands Forest Brigade - 1,000,000 trees Wetland Restoration Streamside Forest Buffers Marylanders Plant Trees Cover Crops (Revised Leases) Streamside Grass Buffers State-owned Septics (DNR Land)

Conserving High Priority Lands

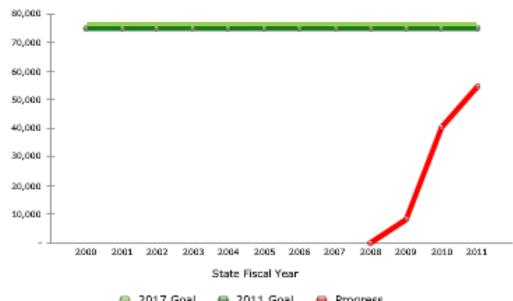
Restoring Natural Filters on Public Lands Marylanders Plant Trees - 50,000 trees/yr

Trees planted next to waterways filter and take up nutrients coming off the land, stabilize the soil and provide wildlife habitat. Last Update: July 25, 2011

Marylanders Plant Trees -2-Year Milestone Progress (2009-2011)



**Planted Trees** 



# Maryland's Bay Restoration Plans: 2-Year Milestones

Maryland can only restore the health of the Bay by implementing proven solutions called Best Management Practices (BMPs) on the most lands. For each category below, the most effective BMPs are listed in order of greatest impact.

Restoring Natural Filters on Public Lands Conserving High Priority Lands Program Open Space CREP Permanent Easements Rural Legacy Maryland Environmental Trust Maryland Agricultural Land Preservation Foundation

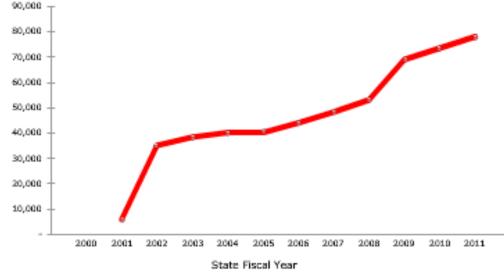
## Conserving High Priority Lands Program Open Space

Program Open Space (POS) symbolizes Maryland's long term commitment to conserving our natural resources while providing exceptional outdoor recreation opportunities for our citizens. Last Update: July 25, 2011

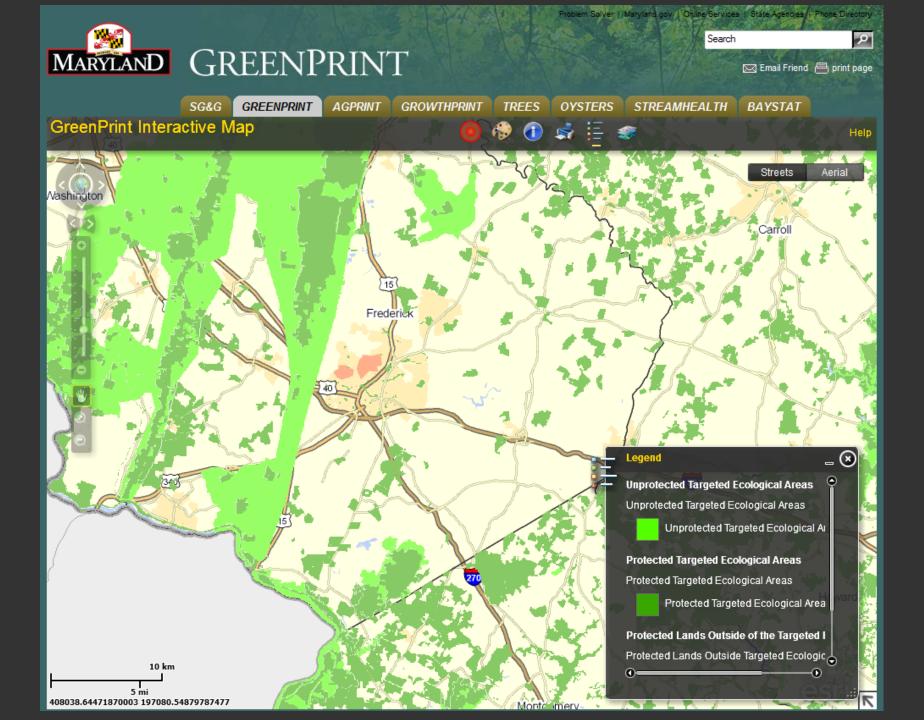
Program Open Space 2-Year Milestone Progress (2009-2011)



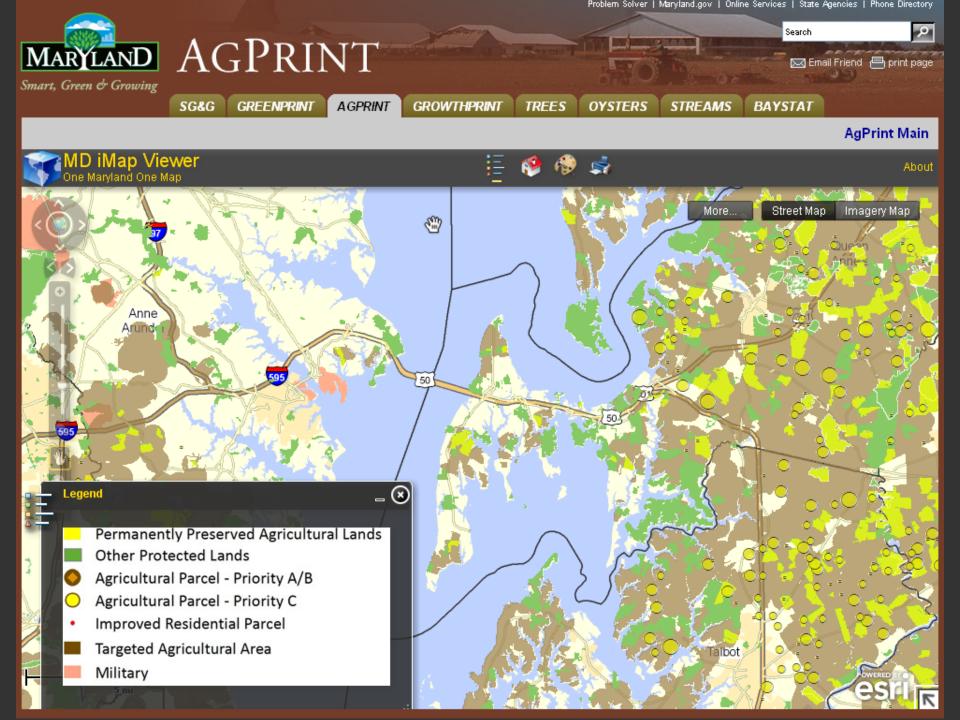
## **Conserved Acres**



Progress









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SG&G

**GREENPRINT** 

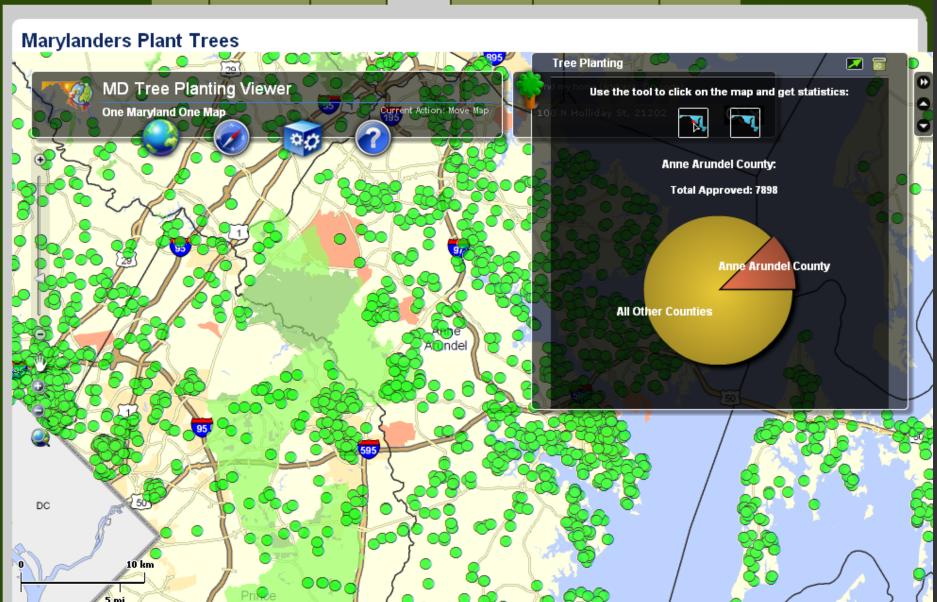
**AGPRINT** 

TREES

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STREAMHEALTH

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MARYLAND

Governor Martin O'Malley

